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# W.U. RECORD

## R. L. Motard Is Named Head of Chemical Engr.

Rodolphe L. Motard, an internationally known leader in the application of computers to chemical process design, has been named chairman of WU's Department of Chemical Engineering and will arrive on campus by July 1, according to John L. Kardos, the department's acting chairman.

Motard received his BSc at Queen's University, Canada, and his MS and DSc at Carnegie-Mellon University, Pittsburgh, all in chemical engineering.

After six years as a research engineer and group

leader in process development for Shell Oil Co., Houston, Texas, including part-time instructor in chemical engineering at the University of Houston, Motard joined the university full time in 1957. He is now a professor of chemical engineering.

In the field of computer applications to chemical processes, Motard's research has produced the computer program CHESS (Chemical Engineering Simulation System). CHESS is used worldwide in some 80 institutions for teaching chemical engineering design and is the basis for a major commercial package in process analysis that is marketed internationally. (continued on page 2)

## Nemerov's 'Gnomes' Fetch Pulitzer, National Book Award

WU's Department of English is establishing an enviable track record: Two Guggenheims (John Morris and Barbara Nolan), a Fulbright (Richard Ruland) and now what a Damon Runyonesk character would probably have called the "Daily Double" (Howard Nemerov). Actually, it could more aptly be described as the weekly double—Monday, April 10, the 1978 National Book Award for Poetry and Monday, April 17, the Pulitzer Prize for the same book—*Collected Poems*.

Over the weekend BP (Before the Pulitzer), but close on the heels of the NBA (National Book Award), Nemerov patiently endured still another interview in his Spartan Duncker Hall digs.

Amidst all the hoopla, Nemerov's new book, *Figures of Thought*, was all but lost sight of by the triumphs of the CP (*Collected Poems*).

Everybody seemed terribly excited (everybody, that is, except Nemerov himself).

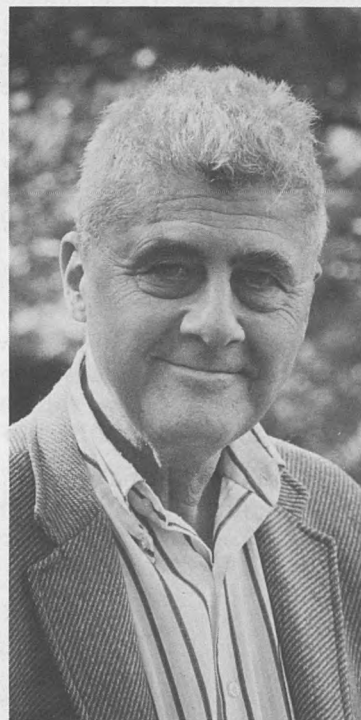
What seemed to astonish him most was not the wonder of winning a pair of prestigious literary plums, but the size of the crowd which crashed the posh Americana Hotel bash after the Carnegie Hall NBC ceremonies. Each event was supposed to have required a rainbow-colored admittance card (Nemerov fished out samples from his pocket)—but apparently, they were never collected.

In response to the interviewer's request, Nemerov hastily scanned a newspaper clipping of his acceptance speech at the Carnegie event, pronounced it accurate, and reflected on the fact that he had been nominated three times previously before copping the NBA prize.

Asked who his favorite poet was, Nemerov promptly replied George Herbert, a 17th-century metaphysical scribe who wrote, among other poems, a jewel of a piece called "The Flower." Nemerov promptly went down the hall to Xerox it for the visitor.

Quite obviously, he was more interested in the late poet Herbert (who died at the untimely age of 40), than in his own success. When pressed, however, he confessed that he regards

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Howard Nemerov



Peter H. Zimmerman

*Wedding Band*, Alice Childress's powerful story of an interracial courtship, will be presented by WU's PAA on April 21, 22, and 23. (See *Calendar*) Taking part above are WU junior Michael Holmes and St. Louis actress Linda Piper.



## Salamanders' Amorous Activities Are Studied by WU Biologist

It happens every spring. *Forsythia* blossom. *Magnolia* trees bloom in lavender and white. Young peoples' fancies turn to love (although this is also known to happen in winter, fall and summer). And salamanders, with their fancies turned as much to love as they are ever likely to be, come up out of the wooded valleys of Tyson Research Center, head straight for Salamander Pond, bump into Owen Sexton's wire-mesh fence, run along it and drop into old coffee cans partially buried in the ground.

Tyson Research Center is a 2000 acre former Army storage facility used by Washington University for projects in a variety of fields from art to physics to biology, and Owen Sexton is a Washington University professor of biology.

Salamander Pond has been around for 12 years. For the past five years, Sexton has been using Salamander Pond, which is part of an ecological preserve at Tyson, to study the breeding migration pattern of salamanders and to count their breeding population at the pond.

**The salamanders**, mostly the Spotted variety, along with a few Tiger salamanders, which are normally not found in wooded areas, head for the pond to breed during the first heavy rain after the spring thaw. This year they migrated to the pond on the night of Monday, March 27.

After the salamanders are trapped in the partially buried coffee cans, Sexton and his graduate assistants take them out, count the males and the females, weigh them and put them in the pond. Between 10 p.m. on the 27th and 3 a.m. on the 28th, they caught 300 salamanders. By the 30th, the females had laid about 50,000 eggs.

Following a courtship ritual in the water, during which the males entice the females to follow them around the pond, the males deposit spermatophores, capsules of spermatozoa, on dead leaves and on bricks that Sexton puts in the pond.

The closely following females pick up the spermatophores, which do not live long in the water, in their cloacal lips. The cloaca is the cavity into which the intestinal, genital and urinary tracts open in such vertebrates as the salamander and in reptiles.

Three days later the eggs are laid on sticks under the water. To keep track of the number of eggs laid, Sexton has poked sticks into the pond's bottom on which the females can lay their eggs. These sticks fly tiny flags here and there just above the pond's surface.

**Once breeding is over**, the salamanders leave the pond little by little, following the same route by which they entered. They are again trapped by the fence and the coffee cans and are counted and weighed. The females are much heavier than the males and, of course, lose more weight during breeding.

Nearly twice as many males as females are among the 1000 salamanders that come to the pond each spring to breed. The young stay in the water from March until August or September when their tadpole-like forms metamorphose into adult salamanders. These amphibious creatures then live on land for up to 25 years, returning to the pond each year to breed.

This research has allowed Sexton and his assistants to determine from which part of the forest the salamanders come and to study the salamander's breeding behavior. According to Sexton, the ecological preserve areas of the Research Center are essential to this type of research. "It is the only way it can be carried on without interference from a lot of people."

Next year, along with all the vagaries of spring, the salamanders will be back at Salamander Pond. And the next spring, and the next . . .

(Nick Ingala)



Peter H. Zimmerman

Professor Owen Sexton removes salamanders from coffee cans at Tyson Research Center.

## Motard

(continued from page 1)

The author of several books and numerous professional articles, Motard has been a consultant to industry, associate director of the Computing Center at the University of Houston, originator and director of the Systems Engineering Interdisciplinary Graduate Program and the Systems Simulation Laboratory at the same university. He is presently national secretary for the CACHE Corp., a not-for-profit association of faculty, dedicated to the promotion of digital computation in chemical engineering.



Rodolphe L. Motard

## Weidenbaum Testifies On Regulation

Professor Murray L. Weidenbaum's testimony before the Joint Economic Committee of Congress, April 11, on the effects of government regulation has aroused great national interest.

Television, radio, newspapers and wire services are reporting on his testimony, which details how the expansion of government regulation is affecting the citizen in many important and costly ways.

Weidenbaum, who is director of the Center for the Study of American Business at WU, told Congress that "government regulation literally has become a major growth industry." It is estimated that outlays for 41 regulatory agencies will increase from \$2.2 billion in 1974 to \$4.8 billion in 1979, a growing burden for all taxpayers.

Government regulations are directly affecting every part of the economy including homeowners, consumers, business executives, workers, investors and motorists. In the latter case, for example, new cars cost about \$666 more because of government regulations.

Citing the need for regulatory reform, he offered six recommendations for constructive change: 1) a new way of looking at the effects of regulation for public policy-making (the trade-off approach) should be developed; 2) an economic impact statement should be required prior to issuing each new regulation; 3) the federal budget process should focus more directly on regulatory activities; 4) all government regulatory activities should be subject to a sunset mechanism; 5) alternatives to regulation should be carefully considered; 6) the role and importance of individual decision making should not be ignored.

REMEMBER the Arts and Education Council Fund Drive. Send contributions to 607 N. Grand, 63103. For information, call Ext. 5949.



## Students Honor Four WU Faculty

Four faculty members, Ronald Freiwald, associate professor of mathematics, Wayne D. Fields, associate professor of English, Laurence H. Meyer, associate professor of economics, and Burton M. Wheeler, dean of the College of Arts and Sciences, will be honored by the Council of Students of Arts and Sciences.

The ceremonies will take place on Wed., April 26, at 11 a.m. in Graham Chapel at the regular Assembly Series sponsored by Phi Beta Kappa, Sigma Xi and the Assembly Committee.

The featured speaker will

be Paul Berg, professor of biochemistry at Stanford University, who will speak on "Directing and Reconstructing the Molecules of Heredity."

Three of the four faculty, Freiwald, Fields and Meyer, will receive the first Council of Students of Arts and Sciences Annual Teaching Awards. Wheeler, who has resigned and is leaving his post at the end of the semester, will receive special recognition for his dedication and service to the students of Washington University.

Freiwald, Fields and Meyer will be saluted "for excellence of teaching and genuine concern for the welfare of students."

## Nemerov

(continued from page 1)

the little poems he starts with as "gnomes—squat and ugly—which sometimes have powerful jaws."

Asked what he would do with the \$1000 accompanying the NBA, Nemerov mused that he would have to see how much was left after taxes. "It will probably be used to help pay for a new transmission for the family Mercedes on its sixth birthday," he said.

"Any other favorite poets?" the interviewer persisted. "There's always me," he said mischievously. The humor which surfaced here is very much a part of the Nemerov style.

And what is it like to be a poet these days? "One thing it is like is that you cannot make a living writing verses, but you can make a quite good living by talking about writing verses," he observed.

(Dorothy Brockhoff)

"CHINESE DOMESTIC POLITICS and Foreign Policy" will be the topic of a lecture Thurs., April 20. Allen S. Whiting, professor of political science at the University of Michigan, will deliver the lecture at 3 p.m. in the Brown Hall Lounge.

SIMON SILVER, WU professor of biology and of microbiology and immunology, has been appointed editor-in-chief of the *Journal of Bacteriology*. Silver has served as an editor of the *Journal* since 1976, and previously, was a member of its editorial board.

The **WU Record** is published weekly during the academic year by the Information Office. Editor, Janet Kelley; calendar editor, Charlotte Boman. Address communications to Box 1142.

## New Sports Director Appointed

John Schael, associate chairman of the Department of Physical Education and Athletics at the University of Chicago, has been named the new director of sports and recreation at WU. He will assume the post on July 1.

Schael will serve as the first director of WU's new Department of Sports and Recreation, which will combine the Departments of Physical Education and Athletics.

Schael has been associated with the University of Chicago since 1968. In addition to serving as associate chairman there, he has also been chairman of the athletic facilities planning committee, director of recreational and athletic facilities and coordinator of the Stag Scholarship Program.

Prior to working at the University of Chicago, Schael spent two years at Miami University at Oxford, Ohio, from 1966 to 1968. He served as graduate assistant in physical education, freshman wrestling coach and assistant varsity coach.

He obtained a bachelor of science and master of education in physical education at Miami University.

Members of the search committee were Phillip L. Gould, chairman, professor of civil engineering; Martha Storandt, associate professor of psychology; David M. Becker, professor of law; Ronald L. Jackson, assistant dean in the College of Arts and Sciences; Linda G. Stewart, assistant professor of education, and three students, Eric Plutzer, Robert B. Fultz and Elaine M. Gregory.

APPLICATIONS are now being accepted for university teaching and advanced research grants under the Fulbright-Hays Act. The pro-



John Schael

gram provides awards for up to one year in most fields of study. Deadlines are June 1 and July 1. For further information, call Ext. 5958.



Herb Weitman

The Department of Fashion at WU will present "The Premiere," a collection of original student designs on Thurs., April 27, at 8 p.m. in the Gallery, Bixby Hall. A champagne reception, sponsored by the Women's Society, will follow. Tickets are \$10. For information and reservations, call Ext. 5227. Above, professional model Terry Foster wears an overblouse, designed by junior Jack Wade and inspired by the Ernest Trova sculpture at Laumeier Park in Sunset Hills.



# Calendar

April 21-27

FRIDAY, APRIL 21

**3 p.m. George Warren Brown School of Social Work Colloquium**, "Geriatric Alcoholism," Eloise Rathbone-McCuan, WU asst. prof. of social work, and Marley C. Smith, WU doctoral candidate in social work. Brown Lounge.

MONDAY, APRIL 24

**4 p.m. Department of Anthropology Spring Lecture Series**, "Expanding World, Narrow Vision!" Eric Wolf, Lehman Col., City U. of New York. 303 Mudd.

**4 p.m. Department of Psychology Colloquium**, "Preferences for Stimulus Information: The Pidgeon's Search for Knowledge," Leonard Green, WU asst. prof. of psychology. 102 Eads.

TUESDAY, APRIL 25

**4 p.m. Department of Anthropology Seminar**, with Eric Wolf, Lehman Col., City U. of New York. Women's Bldg. Lounge.

WEDNESDAY, APRIL 26

**11 a.m. Phi Beta Kappa-Sigma Xi Lecture**, "Dissecting and Reconstructing the Molecules of Heredity," Paul Berg, Willson Prof. of Biochemistry, Stanford U., Stanford, Cal. Graham Chapel. (Cosponsored by Assembly Series.)

**3 p.m. George Warren Brown School of Social Work Colloquium**, "Juvenile Diversion: Net or an Alternative," David L. Cronin, director of practicum, GWB. Brown Lounge.

**4 p.m. Department of Physics Colloquium**, "Autoradiographic Studies of Concentrative Transport in Kidney," Dr. Richard Wedeen, director, Dept. of Medicine, New Jersey City Medical Center, and prof. of medicine, New Jersey Medical School, Newark. 201 Crow.

**8 p.m. Department of Electrical Engineering Seminar**, "Microwave Radiation Hazards in Perspective," John M. Osepchuck, consulting scientist, Raytheon Research Division. 112 Wilson Hall.

THURSDAY, APRIL 27

**12 noon. Very Interesting Women Series III**, with Lisa Schmidt, business manager, *Student Life*. Women's Bldg. Lounge.

**8 p.m. Department of English Shakespeare Colloquium**, "'Printers of the Mind': Was the First Folio *Othello*. Printed from Corrected Quarto Copy?" Lawrence J. Ross, WU prof. of English. Hurst Lounge, Duncker Hall.

## Films

FRIDAY, APRIL 21

**7:30 and 9:30 p.m. WU Filmboard Series**, "Annie Hall." Admission \$1.50. Brown Hall Theatre. (Also Sat., April 22, same times, Brown; and Sun., April 23, 8 p.m. Wohl Center.)

**12 midnight. WU Filmboard Series**, "The Paper Chase." Brown Hall Theatre. Admission \$1. (Also Sat., April 22, midnight, Brown.)

TUESDAY, APRIL 25

**12 noon. Tuesday Women's Film Series**, "Women in Prison." 304 Mallinckrodt. (Also 6:30 p.m., Wohl Formal Lounge.)

**7 and 9:45 p.m. WU Filmboard Series**, "Limelight." Brown Hall Theatre. Admission \$1.50.

WEDNESDAY, APRIL 26

**7:30 p.m. WU Filmboard Series Double Feature**, "Le Magnifique" and "The Return of the Tall Blond Man with One Black Shoe" (9:15 p.m.). Brown Hall Theatre. Admission \$1.50 for either or both films. (Also Thurs., April 27, same times, Brown.)

## Exhibitions

**"WU School of Fine Arts Masters Theses Show,"** at three locations. WU Gallery of Art, Steinberg Hall: 9 a.m.-5 p.m. Mon.-Fri.; 1-5 p.m. Sat., Sun. Through April 30. Riverfront Design Center, 112 N. 2nd: noon-4 p.m. Mon., Wed. and Fri. through May 20. John Burroughs School (outdoors): Through May 5.

**"Maps from the Earth and Planetary Sciences Library"** a variety of topographic and geologic maps, including those of Missouri, the WU campus, Mars, Grand Canyon and Mount Ranier, Washington. All maps were made by the U.S. Geological Survey and the U.S. Defense Mapping Agency. The Earth and Planetary Sciences Library is a repository for materials from both agencies. Olin Library, third floor. 8 a.m.-12 midnight, daily. Through July 31.



Peter H. Zimmerman

The WU Wind Ensemble, directed by Dan Presgrave, will present its final concert of the year Tues., April 25, at 8 p.m. in Edison Theatre. Rex Matzke, saxophone instructor at UMSL, will be the soloist.

## Music

FRIDAY, APRIL 21

**8 p.m. Department of Music and Mu Phi Epsilon Gaylord Library Benefit Concert**, with harpsichordist Trevor Pinnock, WU artist-in-residence, and baroque violinist Eduard Melkus, visiting artist-in-residence, U. of Ill., Urbana, performing an all-Bach concert. Graham Chapel. Admission \$3; \$1.50 for students; \$10 friend; \$25 patron. Tickets available at Edison Theatre Box Office and at the door.

SATURDAY, APRIL 22

**8 p.m. Department of Music Faculty Organ Recital**, Michael Schneider, soloist. Works by Buxtehude, Bach, Mozart, Schumann and David. 2nd Baptist Church, Clayton and McKnight Rds.

SUNDAY, APRIL 23

**7:30 p.m. University City Symphony Concert**, directed by William Schatzkamer. The program will include "Peter and the Wolf," by Prokofiev, narrated by Jack Carney; and the Khachaturian Piano Concerto in D flat major, Stan Ford, soloist. Graham Chapel.

MONDAY, APRIL 24

**4 p.m. Department of Music Student Recital**, with performances by various students. Graham Chapel.

TUESDAY, APRIL 25

**8 p.m. WU Wind Ensemble Concert**, directed by Dan Presgrave, Rex Matzke, saxophone instr., UMSL, soloist. The program will include the "Symphony in B flat," by Hindemith and music from the film "The Wind and the Lion." Edison Theatre.

WEDNESDAY, APRIL 26

**12 noon. WU Madrigals Concert**, directed by Orland Johnson. The program will include the premiere of a piece by Kim Portnoy, WU grad. student. Plaza Frontenac.

**8 p.m. Department of Music Vocal Recital**, Margaret Boyer, soprano, and Greg Powers, tenor, soloists. Graham Chapel.

## Performing Arts

FRIDAY, APRIL 21

**8 p.m. Performing Arts Area Production, *The Wedding Band***, by Alice Childress. Directed by Clyde Ruffin, WU asst. prof. of black studies, with a primarily student cast. Admission \$3; \$1.75 for students, WU faculty and staff. Tickets available at Edison Theatre Box Office. (Also Sat., April 22, 8 p.m., Edison; and Sun., April 23, 2:30 p.m., Edison.)

TWO MISSOURI ARTISTS, one of them William Kohn, WU associate professor of art, recently conducted a workshop and seminar at Culver-Stockton College, Canton, Mo. He and his colleague Shirley Snell of the Kansas City Art Institute were among six recipients of Missouri Arts Council's grants to individual artists. Kohn recently completed a 12-foot acrylic abstract realistic painting, "Bonampak," which now hangs in the new General American Life Insurance Building, 100 Market Street, designed by the noted architect, Philip Johnson.